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Barrier synchronization on wormhole-routed networks- [►hku.hk](#) [PDF]
YZ Sun, PYS Cheung, XL Lin - IEEE Transactions on Parallel and Distributed Systems, 2001 - hub.hku.hk
... free efficient barrier operations on wormhole networks in [8]. A multidestination **worm** is a message that carries **multiple destination addresses** so that it can ...
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Multicast performance analysis for high-speed torus networks- [►ufl.edu](#) [PDF]
S Oral, A George - Local Computer Networks, 2002. Proceedings. LCN 2002. 27th ... , 2002 - ieeexplore.ieee.org
... same time. A **worm** that contains **multiple destination addresses** in its header is the basis for path-based communication. When a destination ...
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Should scalable parallel computers support efficient hardware multicast?- [►psu.edu](#) [PDF]
LM Ni - Proceedings of the 1995 International Conference on Parallel ... , 1995 - books.google.com
... 4.3 Asynchronous Multi-head **Worm** In asynchronous multi-head **worm**, each branch ... Headers
A multicast message has to carry the **multiple- destination** information in ...
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Multicast Performance Analysis for High-Speed Torus Networks
A George, S Oral - 2002 - Storming Media
... same time. A **worm** that contains **multiple destination addresses** in its header is the basis for path-based communication. When a destination ...
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[CITATION] LAYERED MULTI-USER CRYPTOSYSTEMS by
ME Spencer, SE Tavares - Canadian Communications & Energy Conference:[papers]=: ... , 1982 - Institute of Electrical and Electronics Engineers
Related articles - Web Search

Performance evaluation of cache depot on CC-NUMA multiprocessors- [►psu.edu](#) [PDF]
HC Hsiao, CT King - Parallel and Distributed Systems, 1998. Proceedings., 1998 ... , 1998 - ieeexplore.ieee.org
... A multi-hop **worm** is similar to a multidestination **worm** for multicasting in that both carry **multiple destination** addresses in their header and they are routed ...
Cited by 1 - Related articles - Web Search - All 12 versions

Designing tree-based barrier synchronization on 2d mesh networks
CT Jenq-Shyan - 1998 - doi.ieeecomputersociety.org
... A multidestination **worm** is a message which carries **multiple destination addresses** so that it can be sent to multiple nodes with a single startup delay. ...
Cited by 18 - Related articles - Web Search - BL Direct - All 8 versions

Efficient barrier synchronization in wormhole-routed mesh networks supporting turn model
KP Fan, CT King - Parallel Computing, 1998 - Elsevier
... The basic concept of multidestination messaging is to carry **multiple destination addresses** in a ... In step 1, a gather **worm** is initiated by the rightmost member ...

[Related articles](#) - [Web Search](#) - [All 4 versions](#)

[\[PDF\] ► Real-Time Detection of Hidden Traffic Patterns](#)

FHMKTV Lakshman - International Conference on Network Protocols: Proceedings, 1993 - [ieee-icnp.org](#)
... may not reveal a possible on-going DoS **attack** since such **attack** may consist ... An example is a router processing arrivals for **multiple destination** IP-addresses. ...

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[Turn grouping for efficient barrier synchronization in wormholemesh networks- ► \[nthu.edu.tw\]\(#\)](#)

[\[PDF\]](#)

KP Fan, CT Kin - Parallel Processing, 1997., Proceedings of the 1997 ..., 1997 - [ieeexplore.ieee.org](#)
... concept of multidestination messaging is to carry **multiple destination addresses** in a ... types of syn- chronization messages, reduction **worm**, distribution **worm** ...

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[\[PDF\] ► A dynamic mix method for wireless ad hoc networks](#)

S Jiang, NH Vaidya, W Zhao - MILCOM, 2001 - [cs.tamu.edu](#)

... seed material carried by Mix Request is designed to fight against replay **attack**. ... Recall that **multiple Destination** Queries may be triggered by same Mix Request ...

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[MICA: a memory and interconnect simulation environment for cache-based architectures-](#)

[► \[nthu.edu.tw\]\(#\) \[PDF\]](#)

HC Hsiao, CT King - Simulation Symposium, 2000.(SS 2000) Proceedings. 33rd ..., 2000 - [ieeexplore.ieee.org](#)
... The replica- tion is based on the **multiple destination addresses** carried in the message header. ... A communication thread de- notes a message **worm**. ...

[Cited by 13](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 14 versions](#)

[Method and system for sending data between computers using a secure pipeline](#)

TJ Schwab, HD Steinberg, EL Franklin - US Patent App. 09/790,647, 2001 - [Google Patents](#)

... world. Such a physical "air gap" between the sensitive data and the outside world completely prevents computer **attack** or invasion. ...

[Related articles](#) - [Web Search](#) - [All 4 versions](#)

[Exploiting Network Locality for CC-NUMA Multiprocessors- ► \[140.116.245.208\]\(#\) \[PDF\]](#)

HC Hsiao, CT King - The Journal of Supercomputing, 2001 - [Springer](#)

... the **multiple destination addresses** carried in the message header. With this hardware capability, the sender only has to send one multidestination **worm** to reach ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 10 versions](#)

[The group security association for secure multicasting](#)

W Park, J Nah, S Sohn, D Kim - Ninth IEEE International Conference on Networks, 2001. ..., 2001 - [ieeexplore.ieee.org](#)

... For multicast traffic, there are **multiple destination** systems per multicast group. ... exchange mechanisms, protection against the denial-of-service **attack** uses a ...

[Related articles](#) - [Web Search](#) - [All 3 versions](#)

[SOS: Secure overlay services- ► \[utd.edu\]\(#\) \[PDF\]](#)

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 - [portal.acm.org](#)

... a breach in communication that is the re- sult of an **attack** that shuts ... **Multiple destination** nodes for a given identifier can be created by using different hash ...

[Cited by 357](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 56 versions](#)

[\[PDF\] ► Bro: A system for detecting network intruders in real-time](#)

V Paxson - Comput. Networks, 1999 - cs.jhu.edu

... that do what Bro does, generally with much more sophisticated interfaces and management soft- ware [In99, To99, Ci99], ϕ and larger "**attack** signature" li ...

[Cited by 1063](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 111 versions](#)

[Russell JF Fang COMSAT Laboratories, Clarksburg, MD. 20734 USA](#)

AOFCT TO - New Concepts in Multi-User Communication, 1981 - books.google.com

... and this system appears to be secure against known plaintext **attack**. ... Hi DECONCATENATOR

Figure 6. Simplified block diagram of a **multiple-destination** cryptosystem ...

[Related articles](#) - [Web Search](#)

[Optimal congestion control in single destination networks](#)

G Stassinopoulos, P Konstantopoulos - Communications, IEEE Transactions on [legacy, pre-1988], 1985 - [ieeexplore.ieee.org](#)

... ever, that the geometrical properties of the state velocity set and its interpretations, given in the paper, are of considerable value for the **attack** of these ...

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[File archival](#)

RH Sathyanarayan - US Patent App. 09/834,833, 2001 - Google Patents

... imple- mentation, there can be multiple source directories and **multiple destination** directories ... mentation process, or in a process that performs **virus** checks as ...

[Web Search](#) - [All 7 versions](#)

[Smart allocation of bandwidth for multiple independent calls on a digital network](#)

NI Malik - US Patent 6,496,504, 2002 - Google Patents

Page 1. US006496504B1 (12) United States Patent Malik (io) Patent No.: US

6,496,504 BI (45) Date of Patent: *Dec. 17,2002 (54) SMART ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[Method and apparatus for providing user authentication using a back channel](#)

RJ Vandergeest, KT Simzer, ER Skinner - US Patent App. 09/855,183, 2001 - Google Patents

... However, some such systems can be vulnerable to **attack**. ... For example, a user may have **multiple destination** units such as a radiotelephone, pager, or multiple ...

[Web Search](#) - [All 2 versions](#)

[Packaging of GaAs signal processors on multichip modules](#)

BK Gilbert, GW Pan, M Found, MN Rochester - IEEE Transactions on Components, Hybrids, and Manufacturing ..., 1992 - [ieeexplore.ieee.org](#)

... polyamic acid during the cure process, which in turn can **attack** the metal ... if transmission line TAB leads are provided, in a **multiple destination** signal net ...

[Cited by 7](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[Method and system for virtual addressing in a communications network](#)

MS Foster, MA Dorsett - US Patent App. 10/062,199, 2001 - Google Patents

Page 1. US 20020159452A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2002/0159452 AI Foster et al. (43) Pub. Date: Oct. ...

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[\[PDF\] ► IP filter based firewalls howto](#)

B Conoboy, E Fichtner - IPFilter Project, Mar, 2000 - [coffeenix.net](#)

... To do otherwise opens the internal network for a smurf **attack**. These two lines would prevent our hypothetical network from being used as a smurf relay: ...

[Cited by 8](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 65 versions](#)

A bandwidth-efficient implementation of mesh with multiplebroadcasting- ▶kaist.ac.kr [PDF]
JH Choi, BW Kim, KH Park, KI Park - Parallel Processing, 1999. Proceedings. 1999 International ..., 1999 -
ieeexplore.ieee.org

... bus, those nodes on the mesh that are not neighbors can com- municate directly and
a source node can communicate with **multiple destination** nodes simultaneously ...

[Cited by 4](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 7 versions](#)

[book] Jxta: Java P2P Programming- ▶parma.ru [PDF]

D Brookshier, D Brookshier - 2002 - books.google.com

Page 1. Daniel Brookshier Darren Covoni Navaneeth Krishnan FOREWORD BY JUAN CARLOS
SOTO, GROUP MARKETING MANAGER FOR PROJECT JXTA SAMS 'W>J Page 2. What is JXTA ...

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Variable threshold receiver

TE Barclay, JA Zett - US Patent 4,516,248, 1985 - Google Patents

... by track- ing the average of the peak signal levels of the received signal, eliminating
the need for a lengthy preamble to compensate for receiver **attack** time. ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[book] BGP: Building reliable networks with the border gateway protocol

I Van Beijnum - 2002 - books.google.com

... or rather the ARPANET, which is regarded as the origin of today's Internet—was invented
by the military as a network that could withstand a nuclear **attack**. ...

[Cited by 26](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 2 versions](#)

Optimized broadcasting and multicasting protocols in cut-throughrouted networks- ▶psu.edu

[PDF]

J Cohen, P Faigniaud, J Konig, A Raspaud - IEEE Transactions on Parallel and Distributed Systems, 1998 -
ieeexplore.ieee.org

... In **worm**- hole routing, a message is decomposed in small units ... This hypothesis assumes
that a message header can contain **multiple destination addresses** and the ...

[Cited by 15](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 11 versions](#)

[PDF] ▶ Congress: CONnection-oriented Group-address RESolution Service

A Tal - 1998 - Citeseer

... ATM connections is the point-to-multipoint con- nection, which connects a single
source end-system (known as the root node) to **multiple destination** end-systems ...

[Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 5 versions](#)

[PDF] ▶ Synthesis of Parallel Hardware Implementations from Synchronous Dataflow Graph
Specifications by ...

EA Lee - 1998 - ptolemy.eecs.berkeley.edu

Page 1. Synthesis of Parallel Hardware Implementations from Synchronous
Dataflow Graph Specifications by Michael Cameron Williamson ...

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System for translation and communication of messaging protocols into a common protocol

JE Lewis, DT Lai, SJ Richardson, RMK Tam, J ... - US Patent App. 10/299,550, 2002 - Google Patents

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(io> Pub. NO.: US 2003/0101283 Al Lewis et al. (43) Pub. ...

[Web Search](#) - [All 2 versions](#)

Baseband Signal Processing

E Saggese - Satellite Communication Systems Design, 1993 - books.google.com

Page 99. Baseband Signal Processing E. Saggese I. Introduction 3 This chapter

is devoted to operations performed on the baseband ...

[Related articles](#) - [Web Search](#)

Method and apparatus for expanding data rate in an ISDN communication system

NI Malik - US Patent 6,081,841, 2000 - [Google Patents](#)

Page 1. United States Patent Malik US006081841A [ii] Patent Number: [45]

Date of Patent: 6,081,841 Jun. 27, 2000 [54] METHOD AND ...

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The LHAM log-structured history data access method- [psu.edu](#) [pdf](#)

P Muth, PO'Neil, A Pick, G Weikum - The VLDB Journal The International Journal on Very Large ..., 2000 - Springer

... The exception from this rule are components that may reside on archive media such as tapes or **WORM** units; these components are formed based on a redundant ...

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Methods and systems for tracking and playing back errors in a communications network

J McNamara - US Patent App. 10/299,549, 2002 - [Google Patents](#)

Page 1. US 20030131311A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2003/0131311 AI McNamara (43) Pub. Date: Jul. ...

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System and method for providing message notification

JE Lewis - US Patent App. 10/299,551, 2002 - [Google Patents](#)

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Publication (io> Pub. NO.: US 2004/0087300 AI Lewis (43) Pub. ...

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System and method for password protecting a distribution list

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OVERHEAD LIFTING CRANES, HOISTS, AND MONORAILS

L FEIT, JD MITCHELL - Materials Handling Handbook, 1985 - [books.google.com](#)

... It is therefore necessary to provide curves in the monorail system; and where **multiple destination** points are involved, it becomes necessary to provide the ...

[Web Search](#)

Distributed internet multicast system for the stock market

NF Maxemchuk, DH Shur - US Patent App. 09/794,112, 2001 - [Google Patents](#)

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(io> Pub. NO.: US 2002/0120837 AI Maxemchuk et al. (43) Pub. Date: Aug. ...

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[PDF] ► [Commercial electronic publishing over open networks: a global approach based on mobile objects \(...](#)

JH Morin - 1999 - [cui.unige.ch](#)

... of our work. However, we find it useful, to put our work into context and define our angle of **attack** on the domain. We have found ...

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File archival

RH Sathyanarayan - US Patent App. 09/834,833, 2001 - Google Patents
... imple- mentation, there can be multiple source directories and **multiple destination** directories ... mentation process, or in a process that performs **virus** checks as ...
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AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 - portal.acm.org
... u overlay hops. **Multiple destination** nodes for a given identifier can be created by using different hash functions. In addi- tion ...
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A distributed intrusion detection system based on Bayesian alarm networks

D Bulatovic, D Velasevic - Lecture Notes in **Computer Science**, 1999 - Springer

... for example denial of service, virus, **worm** or privacy ... this context, every agent would try to **detect** anomalous intrusions in a **computer** system under ...

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[PDF] ► A method to detect intrusive activity in a networked environment

LT Heberlein, KN Levitt, B Mukherjee - Proceedings of the 14th National **Computer Security ...**, 1991 - netsq.com

... **Worms**, and Viruses. ... 13th National **Computer Security Conference**, pp ... 7. LT Heberlein, "Towards **Detecting** Intrusions in a networked Environment," Technical Report ...

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An attack signature model to **computer** security intrusion detection

AM Cansian, ARA da Silva, M de Souza - MILCOM 2002. Proceedings, 2002 - [ieeexplore.ieee.org](#)

... bugs, used in the Internet **Worm** attack [3 ... unacceptable behavior and attempts to **detect** its occurrence ... of misuse behavior against **computer** network environments ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#)

Using Relational Schemata in a **Computer** Immune System to Detect Multiple-Packet Network Intrusions

JL Bebo - 2002 - Storming Media

... 5.7.4 Fruit With **Worms** . . . One area of research that holds much promise in **detecting** ... is the use of an Artificial Immune System (AIS) or **Computer** Immune System ...

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Digging for **worms**, fishing for answers

F Buchholz, TE Daniels, JP Early, R Gopalakrishna, ... - **Computer Security Applications Conference**, 2002. Proceedings ..., 2002 - [ieeexplore.ieee.org](#)

... Proceedings of the 18th Annual **Computer Security Applications** ... being put into stopping **worms** today focuses on ... intrusion detection systems can **detect** attempts to ...

[Cited by 10](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[BOOK] **Computer** intrusion detection and network monitoring: a statistical viewpoint- ► [jhu.edu](#)

[PDF]

DJ Marchette - 2001 - [books.google.com](#)

... **Computer** professionals with a knowledge of basic net ... the approaches to **detecting** these and other attacks ... The final section covers viruses, **worms**, and other types ...

[Cited by 76](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 7 versions](#)

Method and apparatus for providing node security in a router of a **packet** network

VM Patel, JP Dorenbosch - US Patent App. 09/976,516, 2001 - Google Patents

... for example, a workstation, a personal **computer**, or a ... security program 214 uses to **detect** harmful data ... potential presence of known viruses, **worms**, Trojan horses ...

[Web Search](#) - [All 6 versions](#)

A network security monitor- ► [ucdavis.edu](#) (PDF)

LT Heberlein, GV Dias, KN Levitt, B Mukherjee, J ... - 1990 IEEE Computer Society Symposium on Research in Security ..., 1990 - [ieeexplore.ieee.org](#)

... a hostile program or a hu- man sitting at a **computer**. ... a simple node going down to a network **worm**, can be ... be sure with a high probability of **detecting** an attack ...

[Cited by 266](#) - [Related articles](#) - [Web Search](#) - [All 16 versions](#)

[PDF] ► An Intrusion Detection Scheme Utilizing Teiresias to Determine a **Computer's** DNA Sequence ...

S Hu - 2002 - [sfu.ca](#)

... of such an attack was the use of the Notepad **Worm** that is ... False Positives Attacks **Detect** (out of 10) ... A port can be seen as a door into a **computer** system and ...

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The architecture of a network level intrusion detection system

R Heady, G Luger, A Maccabe, M Servilla - 1990 - [osti.gov](#)

... Luger Arthur Maccabe Mark Servilla Department of **Computer** Science University ... the possibility of using this technology to **detect** and react to **worm** programs ...

[Cited by 196](#) - [Related articles](#) - [Web Search](#) - [Library Search](#)

Fuzzy network profiling for intrusion detection- ► [psu.edu](#) (PDF)

JE Dickerson, JA Dickerson - Fuzzy Information Processing Society, 2000. NAFIPS. 19th ..., 2000 - [ieeexplore.ieee.org](#)

... The tall, **worm**-like structures indicate regular network connections. ... in a rule set for **detecting** suspicious connections ... an NDC ran on the same **computer** as an ...

[Cited by 123](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 14 versions](#)

Case study: Interactive visualization for internet security- ► [psu.edu](#) (PDF)

ST Teoh, KL Ma, SF Wu, X Zhao - Proceedings of the conference on Visualization'02, 2002 - [portal.acm.org](#)

... The brown lines in Figure 6 show all the routes to IP prefix 55/8 within a minute during the Nimda **worm** attack in ... **Detecting** intruders in **computer** systems. ...

[Cited by 45](#) - [Related articles](#) - [Web Search](#) - [All 16 versions](#)

Detecting dissemination of malicious programs

CD Jeffries, CS Lingafelt, NC Strole - US Patent App. 10/120,705, 2002 - Google Patents

... 11, 2002 A method, system and **computer** program product ... By **detecting** random **destination** IP addresses, the ... of a malicious program, eg, virus, **worm** program, may ...

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The SP1 high-performance switch- ► [ibm.com](#) (PDF)

CB Stunkel, DG Shea, DG Grice, PH Hochschild, M ... - Scalable High-Performance Computing Conference, 1994., ..., 1994 - [ieeexplore.ieee.org](#)

... The 0-0 and 1-1 en- codings are invalid to **detect** token errors. ... A **packet** contains no route flits when it reaches its **destination**. ...

[Cited by 304](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 7 versions](#)

User-level network interface protocols- ► [psu.edu](#) (PDF)

RAF Bhoedjang, T Ruhl, HE Bal - **Computer**, 1998 - [ieeexplore.ieee.org](#)

... 56 **Computer** ... While simple, polling is not always the most efficient method to **detect** incoming packets ... the type of host CPU, the DMA engine, and the **packet** size. ...

[Cited by 163](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 20 versions](#)

[PDF] ► Self-Securing Network Interfaces: What, Why and How?

... -MELLON UNIV PITTSBURGH PA SCHOOL OF COMPUTER ... - 2002 - [ece.cmu.edu](#)

... used to break into **computer** systems over ... Specifically, these **worms** spread exponentially

by having ... NIs offer exciting possibilities for **detecting** and containing ...

[Cited by 28](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 18 versions](#)

Specialized hardware for deep network **packet** filtering

YH Cho, S Navab, WH Mangione-Smith - Lecture Notes in **Computer** Science, 2002 - Springer

... As **computer** networks grow faster, it becomes easier for the ... that is used by Snort to **detect** one type ... CERT Advisory CA-2001-19 Code Red **Worm** Exploiting Buffer ...

[Cited by 98](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 13 versions](#)

Hierarchical event monitoring and analysis

PA Porras, A Valdes - US Patent 6,484,203, 2002 - Google Patents

... an enterprise network, the net- work monitors **detecting** suspicious network ... 6 is a diagram of a **computer** platform suitable for ... eg, the spreading of a **worm** or a ...

[Cited by 8](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

System and method for the detection of and reaction to **computer** hacker denial of service attacks

RM Silverman - US Patent App. 09/945,172, 2001 - Google Patents

... relates to monitoring and analyzing a communications network for the purpose of **detecting** "hacker" attacks ... Although **computer** viruses, **worms**, and other so ...

[Web Search](#) - [All 3 versions](#)

Security for the Internet Protocol

RJ Atkinson - 1995 - Storming Media

... to mean that the receiver can **detect** improper modification ... was the now infamous "Internet **Worm**" that exploited ... a manner friendly to modern **computer** processors. ...

[Cited by 555](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

Fast barrier synchronization in wormhole k-ary n-cube networks withmultidestination **worms**- ► psu.edu (pdf)

DK Panda - ... on High-Performance **Computer** Architecture, 1995. Proceedings ..., 1995 - [ieeexplore.ieee.org](#)

... of **Computer** and Information Science The Ohio State University ... state' or 'busy loop- ing' to **detect** this signal. ... a barrier z using gather and broadcasting **worms**. ...

[Cited by 42](#) - [Related articles](#) - [Web Search](#) - [All 22 versions](#)

Practical multicasting on a nonbroadcast subnetwork- ► [ieee-icnp.org](#) (pdf)

S Walton, M Gerla - Network Protocols, 1997. Proceedings., 1997 International ..., 1997 - [ieeexplore.ieee.org](#)

... Simon Walton and Mario Gerla **Computer** Science Dept., University ... output port is not available, the **worm** is blocked ... Also, the routing daemon will **detect** when the ...

[Cited by 1](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

Change detection algorithms for information assurance of **computer** networks

AA Cardenas - 2002 - Storming Media

... As our reliance on **computer** networks grows, the ... of active **worms** throught the Internet, distributed ... baseline for **detecting** abnormalities generated by intrusions ...

[Cited by 1](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

Accurate buffer overflow detection via abstract payload execution

T Toth, C Kruegel - Lecture notes in **computer** sciences, 2002 - Springer

... audience due to the Morris Internet **worm** [21] in ... based network sensors neglect the **packet** payload and ... These systems are capable of **detecting** buffer overflows ...

[Cited by 101](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 5 versions](#)

A necessary and sufficient condition for deadlock-free routing incut-through and store-and-

forward ...

J Duato - IEEE Transactions on Parallel and Distributed Systems, 1996 - [ieeexplore.ieee.org](#)
 ... veloped for store-and-forward **computer** networks ... communications [24], [35] and in
worm- hole switching ... routing subfunction some dependencies are easy to **detect**. ...
 Cited by 73 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 10 versions](#)

[PDF] ► Distributed metastasis: a **computer** network penetration methodology

AJ Stewart - Phrack Magazine, 1999 - [polinux.upv.es](#)
 ... an attacker attempts to penetrate a remote **computer** network is ... increased, and
 consequently the probability of **detecting** anomalous (ie ... 7 Internet **Worm** Analogy ...
 Cited by 12 - [Related articles](#) - [Web Search](#) - [All 16 versions](#)

[PDF] ► An immunological model of distributed detection and its application to **computer** security

SA Hofmeyr, S Forrest - The University of New Mexico, 1999 - [Citeseer](#)
 ... 62 4.3.5 **Detecting** Real Nonself 90 6.1.2 Fighting **Worms** with **Worms** . . .
 99 6.3.2 Insights for **Computer** Science
 Cited by 187 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 16 versions](#)

[PDF] ► Beyond the perimeter: the need for early detection of denial of service attacks

J Haggerty, Q Shi, M Merabti - Computer Security Applications Conference, 2002. Proceedings ..., 2002 - [acsa-admin.org](#)
 ... new approach which focuses on **detecting** DoS beyond ... Networks," Proceedings of the
 Annual **Computer** Security Applications ... 2001-19 'Code Red **Worm** Exploiting Buffer ...
 Cited by 9 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 13 versions](#)

[PDF] ► Safety and Performance in an Open **Packet** Monitoring Architecture

KG Anagnostakis, S Ioannidis, S Mitchev, J ... - Technical Reports (CIS), 2002 - [repository.upenn.edu](#)
 ... University of Pennsylvania Department of **Computer** and Information Science ... can use
 this tool to **detect** service degradation ... The "Code R ed **worm** and its variants ...
[Related articles](#) - [Web Search](#) - [All 7 versions](#)

Identification of host audit data to detect attacks on low-level IP vulnerabilities-► [kfupm.edu.sa](#) [PDF]

TE Daniels, EH Spafford - Journal of Computer Security, 1999 - IOS Press
 ... to **detect** widely distributed attacks like **worms** and portscans ... gain unautho- rized
 access to **computer** systems by ... and present signatures to **detect** this activity. ...
 Cited by 34 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 7 versions](#)

[PDF] ► A Source Router Approach to DDoS Defense

J Mirkovic, P Reiher, G Prier - Proceeding of USENIX Security Symposium, 2001 - [lasr.cs.ucla.edu](#)
 ... Peter Reiher and Gregory Prier **Computer** Science Department ... and existing security
 mechanisms cannot **detect** or stop ... The Code Red [13] **worm** is self-propagating ...
 Cited by 1 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 13 versions](#)

Open **packet** monitoring on FLAME: Safety, performance, and applications- ► [kfupm.edu.sa](#)[PDF]

KG Anagnostakis, M Greenwald, S Ioannidis, S ... - Lecture notes in computer science, 2002 - Springer
 ... Despite the ability to locally **detect** and protect against **worms** ... ACM Transactions
 on **Computer** Systems, 15(3):217-252 ... The spread of the code-red **worm** (crv2). ...
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A software architecture to support misuse intrusion detection- ► [kfupm.edu.sa](#) [PDF]

S Kumar, EH Spafford - In Proceedings of the 18th National Information Security ..., 1995 - [eprints.kfupm.edu.sa](#)

... of specific, precisely representable techniques of **computer** system abuse. ... the detection of the Internet **worm** attack by ... Thus, in order to **detect** simplified TCP ...

[Cited by 149](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 18 versions](#)

An adaptive low-power transmission scheme for on-chip networks- ► [berkeley.edu](#) (PDF)
F Worm, P Thiran, G De Micheli - Proceedings of the 15th international symposium on System ..., 2002 - [portal.acm.org](#)

... Laboratory EPFL, Lausanne, Switzerland Frederic.Worm@epfl.ch ... Giovanni De Micheli
Computer Systems Laboratory Stanford University ... 32-bit word) to **detect** errors. ...

[Cited by 75](#) - [Related articles](#) - [Web Search](#) - [All 25 versions](#)

[PDF] ► Protecting data network availability

JM Robert, F Cosquer - Alcatel telecommunications review, 2002 - [alcatel.com](#)

... the Internet, for example, the Code Red **worm** and the ... of the 17 th Annual **Computer** Security Applications ... H. Wang, D. Zhang, K. Shin: "**Detecting** SYN Flooding ...

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 5 versions](#)

[PDF] ► Recent development in ddos research

J Costa-Requena - Seminar on Network Security, 2001 - [tml.tkk.fi](#)

... includes Trojan horses, viruses, **worms**, logic bombs ... as the current mechanism for **detecting** and solving ... This concept identifies any **computer** system infiltrated ...

[Cited by 3](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

[PDF] ► A Survey of Intrusion Detection Analysis Methods

J Lee, S Moskovics, L Silacci - 1999 - [www-cse.ucsd.edu](#)

... of a "widespread attack" or a "**worm**" type of ... Log files, **packet** analysis, and even special-purpose ... [5] U. Lindqvist, "**Detecting Computer** and Network ...

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 3 versions](#)

[PDF] ► Quantitative Network Security Analysis

D Moore, GM Voelker, S Savage - Cooperative Association for Internet Data Analysis (CAIDA), ..., 2002 - [caida.org](#)

... that 50% of all attacks have a **packet** rate greater ... abstract properties: the time to **detect** and react ... While **computer worms** represent a relatively new threat, the ...

[Cited by 2](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 3 versions](#)

Integrated security gateway apparatus

KT Kim - US Patent App. 09/784,719, 2001 - Google Patents

... **computer** viruses, Trojan horses and/or **worms** into the ... That is, the IDS 380 cannot **detect** an intrusion ... is illustrated as including a server **computer** 411 and ...

[Web Search](#) - [All 2 versions](#)

Method and system for protecting publicly accessible network **computer** services from undesirable ...

GR Malan, F Jahanian - US Patent App. 09/855,818, 2001 - Google Patents

... Unlike a virus or **worm**, which can cause severe ... to protect publicly accessible network **computer** services such as ... in the request can be used to **detect** some types ...

[Web Search](#) - [All 5 versions](#)

Computer file protection system

RP Jones - US Patent 5,144,659, 1992 - Google Patents

... BY DRIVER FOR MAJOR & MINOR NUMBER PLUS INFO IN DATA **PACKET**. ... an application does not require within the **computer** profession as "**worms**", "Trojan 45 ...

[Cited by 54](#) - [Related articles](#) - [Web Search](#) - [All 8 versions](#)

Fast algorithms for bit-serial routing on a hypercube- ► [psu.edu](#) (PDF)

WA Aiello, FT Leighton, BM Maggs, M Newman - Theory of Computing Systems, 1991 - Springer

... fourth authors were at the Laboratory for **Computer** Science, Massachusetts ... back to the tail, allowing the entire **worm** to move. ... At the head of each **packet** is a $2n$...

[Cited by 77](#) - [Related articles](#) - [Web Search](#) - [All 6 versions](#)

Computer security using virus probing

E Grosse - US Patent 6,205,551, 2001 - Google Patents

... threats either work independently (eg, **worms**) to achieve ... and the firewall does not **detect** a security ... of various security advantages to **computer** net- works as ...

[Cited by 8](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[PDF] ► **The evolution of malicious agents**

L Zeltser, AR Reserved - Web Report. Available online at: <http://www.zeltser.com/> ..., 2000 - securitytechnet.com

... the transmissions very difficult to decipher and **detect**. ... Agents such as the Morris **Worm** illustrated highly ... real-time remote control of the **computer** that rivals ...

[Cited by 5](#) - [Related articles](#) - [Web Search](#) - [All 8 versions](#)

Method and system for profiling network flows at a measurement point within a computer network

GR Malan, F Jahanian - US Patent App. 09/855,809, 2001 - Google Patents

... Unlike a virus or **worm**, which can cause severe ... to protect publicly accessible network **computer** services such as ... in the request can be used to **detect** some types ...

[Related articles](#) - [Web Search](#) - [All 6 versions](#)

[book] **Halting the hacker: a practical guide to computer security**

DL Pipkin - 2002 - books.google.com

... many years of hands-on experience in the field of **computer** security allows ... information systems, from access control and authentication to **detecting** break-ins ...

[Cited by 15](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 2 versions](#)

A model for mobile code using interacting automata- ► [ccerl.edu.cn](#) (PDF)

RR Brooks, N Orr - IEEE Transactions on Mobile Computing, 2002 - [ieeexplore.ieee.org](#)

... network attacks such as viruses, **worms**, and Distributed ... distributed agreement protocols can **detect** and isolate ... client/server paradigm, one **computer** node has a ...

[Cited by 7](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 8 versions](#)

... for reconstructing a path taken by undesirable network traffic through a **computer** network from a ...

GR Malan, F Jahanian - US Patent App. 09/855,810, 2001 - Google Patents

... Unlike a virus or **worm**, which can cause severe damage to ... to protect publicly accessible network **computer** services such ... The HNP can easily **detect** these types of ...

[Web Search](#) - [All 5 versions](#)

[PDF] ► **Fast Broadcast and Multicast in Wormhole Multistage Networks with Multidestination Worms**

DK Panda, R Sivaram - 1995 - Citeseer

... of **Computer** and Information Science The Ohio State University ... When the **worms** reach rst stage switches, a copy of the **packet** is forwarded to every processor ...

[Cited by 16](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 5 versions](#)

Throttling viruses: Restricting propagation to defeat malicious mobile code- ► [future.co.kr](#)

[PDF]

MM Williamson - **Computer Security Applications Conference, 2002. Proceedings ...**, 2002 - ieeexplore.ieee.org
 ... attempt (eg the first SYN **packet** of the ... Proceedings of the 18th Annual **Computer Security Applications ...** to propagate vigorously, the filter can **detect** this very ...
[Cited by 244](#) - [Related articles](#) - [Web Search](#) - [All 19 versions](#)

[PDF] ► **A Tool for Statistical Detection of Faults in Internet Protocol Networks**

J Roberts, S Fouche, J Purtilo - 2002 - cs.umd.edu

... speeds, the need to **detect** and mitigate ... attacks, **computer** viruses, and malicious network **worms**. ... framework for identifying hazardous **computer** transactions by ...

[View as HTML](#) - [Web Search](#) - [All 3 versions](#)

5. Low-Level SCI Protocols and Their Application to Flexible Switches

AC Doring, W Obeloer, G Lustig, E Maehle - **Sci. Scalable Coherent Interface: Architecture and Software ...**, 1999 - Springer

... University of Lubeck Institute of **Computer Engineering** Ratzeburger ... tech- nique, eg **packet** or **worm-hole** switching ... In order to **detect** transmission errors, the ...

[Cited by 1](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

[PDF] ► **Monitoring Controller's" DNA Sequence" For System Security**

B Yu, E Byres, C Howey - ... Conference, Instrumentation Systems and Automation Society, ..., 2001 - bcil.ca

... in the form of virus, DOS, DDOS, **worms**, mail bombers ... preliminary list of categories of a **computer** system which ... nets in the section titled **Detecting** DNA Mutation ...

[Cited by 5](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 4 versions](#)

[PDF] ► **Syntax-directed translation of concurrent programs into self-timed circuits**

... CALIFORNIA INST OF TECH PASADENA DEPT OF **COMPUTER** ... - 1988 - Citeseer

... and Alain J. Martin **Computer Science Department** ... types, we can construct **worm-holeroutingsystems3]**thatallowprocessors ... The **packet**[the combination of the header ...

[Cited by 64](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 20 versions](#)

Issues in Client/Server Security

DA Adams, SR Pappa - **Information Security Journal: A Global Perspective**, 1995 - informaworld.com

... The **worm** also included ... fixed this Centralized, host-based systems are inher- problem by **detecting** packets that are ... tion is executed on a centralized **computer**. ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#)

Method of protecting the integrity of a **computer program**

F Zisowski - **US Patent App. 10/175,343**, 2002 - Google Patents

... eg Trojan horse programs, viruses and **worms**, which run ... is a program that attempts to **detect** malicious programs by comparing the **computer** storage, eg ...

[Cited by 1](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

Efficient multicast on Myrinet using link-level flow control- ► psu.edu [PDF]

RAF Bhoedjang, T Ruhl, HE Bal - **Parallel Processing**, 1998. Proceedings. 1998 International ..., 1998 - ieeexplore.ieee.org

... Multiple NIs can **detect** (and recover from) a deadlock simultaneously. ... it has run out of send credits for some **destination** that it needs to send a **packet** to. ...

[Cited by 61](#) - [Related articles](#) - [Web Search](#) - [All 12 versions](#)

A general theory for deadlock-free adaptive routing using a mixedset of resources

J Duato, TM Pinkston - **IEEE Transactions on Parallel and Distributed Systems**, 2001 - ieeexplore.ieee.org

... please send e-mail to: tpds@computer.org, and ... deadlocks can be handled by **detecting** and recovering ... theories for avoidance-based adaptive **worm-** hole routing ...

[Cited by 29](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 8 versions](#)

Security problems in the TCP/IP protocol suite- ►usyd.edu.au [PDF]

SM Bellovin - ACM SIGCOMM Computer Communication Review, 1989 - portal.acm.org

... such as those used by the Internet's 'worm' "[41]{511 ... that makes this check can easily **detect** intrusion attempts ... a conceal even meaning on a single-user **computer**. ...

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Fault-tolerant adaptive routing for two-dimensional meshes

CM Cunningham, DR Avresky - ... on High-Performance Computer Architecture, 1995. Proceedings ..., 1995 - ieeexplore.ieee.org

... of Computer Science Texas A & M University College ... Therefore, the total length of the "worms" is six ... nodes in the network, while **detecting** those that are ...

Cited by 46 - Related articles - Web Search - Library Search - All 7 versions

[PDF] ►Characterizing Intrusions with Visual Data Mining

JA Dickerson, JE Dickerson, J Juslin, N ... - 2001 - people.emich.edu

... The tall, worm-like structures indicate regular network connections ... **detect** when an uncommon port number is being connected ... an NDC ran on the same **computer** as an ...

Related articles - View as HTML - Web Search

SPIDER: flexible and efficient communication support for point-to-point distributed systems-

►kfupm.edu.sa [PDF]

J Dolter, S Daniel, A Mehra, J Rexford, W Feng, K ... - Distributed Computing Systems, 1994., Proceedings of the ..., 1994 - ieeexplore.ieee.org

... and dependability requirements on the **computer** system, since a ... perform e-cube routing with worm-hole switching ... degree of flexibility and also **detect** errors in ...

Cited by 18 - Related articles - Web Search - Library Search - BL Direct - All 14 versions

[PDF] ►The Cranium network interface architecture: support for message passing on adaptive packet routing ...

NR McKenzie - 1997 - Citeseer

... 1.2 One processing node of a scalable parallel **computer** system ... node is both a message source and **destination** ... 6.1 Latency of a single **packet** under the model ...

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Role-based multicast in highly mobile but sparsely connected ad hoc networks- ►udel.edu

[PDF]

L Briesemeister, G Hommel - Proceedings of the 1st ACM international symposium on Mobile ..., 2000 - portal.acm.org

... the vehicles are equipped with a **computer** controlled ... advantage of using the ability to **detect** neighbors in ... in the CHAUFFEUR project;' in 4th Worm Congress on ...

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[PDF] ►Active mapping: Resisting NIDS evasion without altering traffic

U Shankar, V Paxson - Computer, 2002 - umeshshankar.com

... to the Department of Electrical Engineering and Computer Sciences, University ... corresponding to the Nimda worm, while another tries to **detect** port scans ...

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[CITATION] Protocol anomaly detection for network-based intrusion detection

K Das - SANS, August, 2001

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[CITATION] On the Difficulty of Scalably Detecting Network Attacks

G Varghese - ACM Conference on Computer and Communications Security: ..., 1999 - Association for

Computing Machinery

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YC Hu, A Perrig, DB Johnson - Department of **Computer** Science, Rice University, Tech. Rep. ..., 2002 - CiteSeer

... Rice University Department of **Computer** Science Technical Report TR01 ... a general approach for **detecting** wormholes, Section 10 ... OUTE R EQUEST **packet** directly to the ...

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S Cheung - 1999 - CiteSeer

... Internet **worm** 65], demonstrate how vulnerable current **computer** systems ... (insecure) **computer** and network ... Presents techniques and protocols to **detect** and respond ...

[Cited by 12](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 6 versions](#)

[Minimal adaptive routing on the mesh with bounded queue size](#)

DD Chinn, T Leighton, M Tompa - Proceedings of the sixth annual ACM symposium on Parallel ..., 1994 - portal.acm.org

... tompa@c6.washington .edu; Department of **C**om**P**uter 'ci- ... model would allow the node to **detect** the state ... When a **packet** reaches its **destination**, it is considered ...

[Cited by 24](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 6 versions](#)

[A Universal, Dynamically Adaptable and Programmable Network Router for Parallel Computers-](#) ► [hindawi.com](#) [PDF]

V Design - VLSI Design, 2001 - hindawi.com

... correspondence: Department of Electrical and **Computer** Engineering, New ... may have to store the **packet** for a ... loss of generality, we implement **worm**- hole routing [4 ...

[Related articles](#) - [View as HTML](#) - [Web Search](#)

[Defending against flooding-based distributed denial-of-service attacks: A tutorial-](#)

► [ncu.edu.tw](#) [PDF]

RKC Chang - IEEE Communications Magazine, 2002 - ieeexplore.ieee.org

... a detail discus- sion on Internet **worms** deserves a ... An effective **packet** filtering mechanism should be able to ... it is not difficult to see that **detecting** a DDoS ...

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[Open **Packet** Monitoring on FLAME: Safety, Performance, and Applications](#)

S Miltchev - Active Networks: IFIP-TC6 4th International Working ..., 2002 - books.google.com

... Despite the ability to locally **detect** and protect against **worms** ... ACM Transactions on **Computer** Systems, 15 (3): 217-252 ... The spread of the code-red **worm** (crv2). ...

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[DOC] ► [A real time **packet** filtering module for network intrusion detection system](#)

G Yang, I Ames - 1998 - seclab.cs.sunysb.edu

... The well-known Internet **worm** program fits into this ... a system from intrusion is to **detect** and isolate ... As defined by the National **Computer** Security Center in its ...

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[Supporting TCP connections in wormhole routing and ATM networks-](#) ► [psu.edu](#) [PDF]

A Bianco, E Leonardi, M Munafò, F Neri - **Computer** Communications, 2001 - Elsevier

... The goal of these modifications is to **detect** important traffic ... The issue of deadlocks in **computer** systems has been well ... and prevent **packet** loss in **worm** LANs is ...

[Related articles](#) - [Web Search](#) - [All 4 versions](#)

[PDF] ► Bandwidth reservation for bursty traffic in the presence of resource availability uncertainty

I Oidon, R Rom, Y Shavitt - **Computer Communications**, 1999 - cm.bell-labs.com

... time-outs (possibly at a higher layer) to **detect** failures. ... or with on-the-fly reservation **packet** that precede ... **Computer Communications** 22 (1999) 919–929 922 ...

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Phone line **computer** networking

C Dichter - US Patent 5,896,443, 1999 - Google Patents

... box 105 is used to 1Q **worm** protocol ... which is capable of being understood by a **computer** or other ... one of a bandsplitting and an echo **detecting** collisions between ...

Cited by 9 - [Related articles](#) - [Web Search](#) - All 2 versions

[PDF] ► Practical considerations in ethernet local network design

RC Crane, EA Taft - **System**, 1980 - ethernethistory.typepad.com

... This method of **detecting** collisions depends on the fact ... bandwidth and latency of the host **computer's** I/O ... time considerably less than a **packet** transmission time ...

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The simulation of a fault tolerant **computer** system

JS Griffin, JC Comfort - **Proceedings of the 18th annual symposium on Simulation**, 1985 - portal.acm.org

... The in- creasing complexity of VLSI circuitry is making it harder and harder to **detect** ... **worm**. ... Page 7. SIMULATION OF A FAULT-TOLERANT **COMPUTER** SYSTEM I/1 ...

Cited by 1 - [Related articles](#) - [Web Search](#) - All 2 versions

Decentralized event correlation for intrusion detection

C Krugel, T Toth, C Kerer - **Lecture Notes in Computer Science**, 2002 - Springer

... This includes **worms** spreading in a network as well as ... Quicksand can be used to describe and **detect** situations where ... to a host, the reception of a **packet** from a ...

Cited by 59 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 7 versions

System and method for network intrusion prevention

TF Liston - US Patent App. 10/308,980, 2002 - Google Patents

... Recent global attacks by **worms** such as Nimda and ... execute and the firewall does not **detect** a security ... If a local **computer** sends an address resolution protocol ...

[Web Search](#) - All 2 versions

A prototype implementation of a network-level intrusion detection system. Technical report number ...

R Heady, GF Luger, AB Maccabe, M Servilla, J ... - 1991 - osti.gov

... technology to **detect** and react to **worm** programs ... at the machine level of a **computer** system ... applicability of intrusion detection techniques to **detect** network level ...

[Related articles](#) - [Web Search](#)

[PDF] ► An analysis of some software vulnerabilities

I Krsul, E Spafford, M Tripunitara - **Proceesings of the 21st NIST-NCSC National Information ...**, 1998 - csrc.nist.gov

... testing techniques that attempt to **detect** known problems ... of the natural hierarchical organization of **computer** systems, with ... A **packet** filter, situated on a path ...

Cited by 3 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - All 5 versions

[PDF] ► Local area networks

MD Abrams, HJ Podell - ... collection of essays. IEEE **Computer Society Press**, Los ..., 1995 - acsac.org

... software such as Trojan horses and **worms** can attack ... the concepts from the Trusted **Computer System Evaluation** ... Multiple Ac- cess with Collision **Detect** (CSMA/CD ...

[Cited by 2](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 4 versions](#)

High performance hypercube communications

G Buzzard, T Mudge - ... computers and applications: Architecture, software, **computer** ..., 1988 - portal.acm.org
... the JPL Hyperswitch in a JPL Mark III based **computer**. ... simple example, we see that with **worm**- hole routing ... and 2) the architectural scheme for **detecting** if the ...

[Cited by 3](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

► Internet Users' Glossary

G Malkin, TLQ Parker - 1993 - isi.edu

... **Computer** Emergency Response Team, Trojan Horse, virus, **worm**. ... the receiving node can **detect** some types of ... between this source and **destination computer** and the ...

[Cited by 38](#) - [Related articles](#) - [Cached](#) - [Web Search](#) - [Library Search](#) - [All 2 versions](#)

Computer connections

RE Dessy - Laboratory Automation and Information Management, 1996 - Elsevier

... process, by placing it on **WORM** drives where ... interactive multimedia, and high speed **computer** communications, as ... CRC approach which can both **detect** errors and ...

[Cited by 3](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Abstraction-based intrusion detection in distributed environments- ►psu.edu [PDF]

P Ning, S Jajodia, XS Wang - ACM Transactions on Information and System Security (TISSEC), 2001 - portal.acm.org

... Inva- sive software (eg, viruses, **worms**, Trojan horses ... a second line of defense for **computer** and network ... the research domain of **detecting** intrusions distributed ...

[Cited by 65](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 19 versions](#)

[PDF] ► Attacking DDoS at the source

J Mirkovic, G Prier, P Reiher - Proceedings of the IEEE International Conference on Network ..., 2002 - ieee-icnp.org

... University of California Los Angeles **Computer** Science Department ... at flow granularity in order to **detect** difficulties in ... an attack flow if its **packet** ratio is ...

[Cited by 217](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 10 versions](#)

[PDF] ► The design of a secure internet gateway

B Cheswick - in Proc. Summer USENIX Conference, 1990 - eprints.kfupm.edu.sa

... os (UMIPS) 4.0 inet Copyright 1986, MIPS **Computer** Systems All ... s not clear whether a clever **worm** could get ... does not provide logging to **detect** invasion attempts. ...

[Cited by 68](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 6 versions](#)

NetSTAT: A network-based intrusion detection system

G Vigna, RA Kemmerer - Journal of **Computer** Security, 1999 - IOS Press

... to **detect** "doorknob rattling" and **worm**-like attacks ... tech- nique has been applied to **computer** networks, and ... engine is the actual intrusion **detecting** component ...

[Cited by 196](#) - [Related articles](#) - [Web Search](#) - [BI Direct](#) - [All 10 versions](#)

System and method for malicious code detection

RS Hoefelmeyer, TE Phillips - US Patent App. 09/862,851, 2001 - Google Patents

... code, such as a Trojan horse, **worm**, etc. ... by at least one of the scanning **computer** systems. ... according to claim 10, further comprising **detecting** malicious code ...

[Related articles](#) - [Web Search](#) - [All 6 versions](#)

Mad-Postman: a look-ahead message propagation method for static bidimensional meshes

C Izu, R Beivide, C Jesshope - Parallel and Distributed Processing, 1994. Proceedings. ..., 1994 - ieeexplore.ieee.org

... node the **packet** is immediately forwarded on the lead- ing ... when there is a blockage
 MW - Mad-**worm**: a mad ... A link control mechanism is needed to **detect** the start ...
[Cited by 8](#) - [Related articles](#) - [Web Search](#)

[BOOK] [Hacker Proof: The Ultimate Guide to Network Security](#)

KA Jamsa, L Klander - 2002 - [books.google.com](#)

... **Detecting** and Preventing Spoofing 291 ... **Packet** switching is the means most computers
 and ... at Cornell University launched a networking **worm computer** program—the ...
[Web Search](#)

[Security architecture testing using IDS—a case study- ► 220.68.70.190 \(PDF\)](#)

T Verwoerd, R Hunt - **Computer Communications**, 2002 - Elsevier

... Internet and the advent of network **worms** mean that ... which attempts to identify abuse
 of **computer** systems, be ... have a firewall, which, on **detecting** hostile probes ...

[Cited by 3](#) - [Related articles](#) - [Web Search](#) - [All 8 versions](#)

[PDF] ► [Data mining for network intrusion detection](#)

P Dokas, L Ertöz, V Kumar, A Lazarevic, J ... - Proc. NSF Workshop on Next Generation Data Mining, 2002 -
[csee.umbc.edu](#)

... a recent survey [1] by CERT/CC (**Computer** Emergency Response ... 60s time interval was
 allowed to **detect** the bursty ... utility software [25] as the **packet** fil- tering ...

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[PDF] ► [A structured approach to computer security](#)

T Olovsson - Chalmers University of Technology, Gothenburg, 1992 - CiteSeer

... software are important channels for the spreading of viruses and **worms**. ... accesses
 and audit trails can be used to **detect** unusual system ... **Computer** Communication ...

[Cited by 21](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 17 versions](#)

[Method for deadlock free and and reliable routing in a packet switched network](#)

B Abali, KJ Reilly, CB Stunkel - US Patent 6,031,835, 2000 - Google Patents

... all the central queues be monitored to **detect** a potential ... are com- monly used in
 parallel **computer** systems to ... to span several switches in a **worm-hole** fashion ...

[Cited by 3](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] ► [Design of scalable and multicast capable cut-through switches for high-speed LANs](#)

M Yang, LM Ni - Proceedings of the international Conference on Parallel ..., 1997 - CiteSeer

... Department of **Computer** Science Michigan State University East Lansing ... A **packet** uses
 Y channels only when X dimension ... is possible for hardware to **detect** an open ...

[Cited by 11](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 7 versions](#)

[Backdoors and Trojan Horses By the Internet Security Systems' X-Force](#)

NT Windows - Information Security Technical Report, 2001 - Elsevier

... the user and the name of the **computer**, and get ... Note: When **detecting** the Doly Trojan
 Horse using a network ... Trojan v1.5 — Connected.' in a TCP **packet** with a ...

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Key authors: [L Heberlein](#) - [J Dickerson](#) - [K Levitt](#) - [B Mukherjee](#) - [R Bhoedjang](#)

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A Worm Filter Based on the Number of Unacknowledged Requests

We propose a new filter for preventing **computer worms** from ... **destination** addresses, the **destination** port, and the protocol number of an out- ... equal to the **threshold**, the **worm** filter checks the value of the least recently used **multiple** operating systems to run concurrently on a **single** physical **computer**. ...

www.springerlink.com/index/40x5821r91e0b92k.pdf - Similar

by T Okamoto - 2005 - Cited by 1 - Related articles

LNAI 3930 - Fast Detection of Worm Infection for Large-Scale Networks

threshold selection, similarity detection algorithm and fine analysis. ... monitoring the number of ICMP **destination** unreachable packets generated by routers packets are certain, such as 80, 25 and 21 etc. but the **source** ports of the request ... can find that no **single** similarity can detect a **worm's** attack ...

www.springerlink.com/index/y503n28tj8036401.pdf - Similar

by H He - 2006 - Related articles

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Efficient Content-Based Detection of Zero-Day Worms

directed to **multiple destination** hosts. We evaluate our method substrings will only be sent to a **single destination** before they a fixed cache size of 500 msec, distinct **destination threshold** of 10, sampling scanning **worms**, the first external **source** may probe and infect an entire network, ...

ieeexplore.ieee.org/iel5/9996/32110/01494469.pdf?arnumber=1494469 - Similar

by P Akritidis - 2005 - Cited by 24 - Related articles

WormShield: Fast Worm Signature Generation with Distributed ...

Single substring. Disjoint string tokens. **Multiple** substrings. **Single** dispersion, where t is a **threshold** for both **source** and **destination** addresses. Fig. ACM Conference on **Computer** and Communications Security, 2003, pp. ...

ieeexplore.ieee.org/iel5/8858/28003/101109TDSC20071000.pdf - Similar

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[PDF] Characterization of Network-Wide Anomalies in Traffic Flows

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along with the corresponding **threshold** line. Finally, in the bottom high-rate flows from a **single source** to a **single destination** which ... **Multiple** instances where a large number of packets are sent to a **single destina**- Taxonomy of **Computer Worms**. In ACM CCS Workshop on Rapid. Malcode (**WORM**), October 2003 ...

cs-people.bu.edu/anukool/pubs/anomalychar-imc04.pdf - Similar

by A Lakhina - 2004 - Cited by 104 - Related articles

Methods and apparatus for many-to-one connection-rate monitoring ...

If the pre-set **threshold** rate is exceeded by the measured traffic rate, ... This reduces damage because the **worm** or virus is able to spread less for example, by programming new **source/destination** traffic streams into a route ... The switching or routing apparatus 102 may be configured with **multiple** ports 202. ...

www.faqs.org/patents/app/20090016221 - Cached - Similar

Method and system for counting new destination addresses - Patent

Packets of a certain type from a certain **source** are directed to a system that Even though the impact of a **single worm** on any given piece of network ... by the fact that the current solutions are based on **multiple** components, T_i and the expected number of new **destinations** is greater than a **threshold**. ...

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[PDF] Simulating Realistic Network **Worm** Traffic for **Worm** Warning System ...

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dresses that are not associated with a reachable **computer**. In many cases, routers that receive a packet ... the total number of packets for any **source** or **destination** machine or port exceeds a **threshold** N . DIBS within a config-urable time interval Δt ... to a **single source** machine, **multiple source** machines, and ...

www.ssfnet.org/Papers/p022-liljenstam.pdf - [Similar](#)
 by M Liljenstam - 2003 - [Cited by 95](#) - [Related articles](#) - [All 20 versions](#)

[PDF] INTERNATIONAL COMPUTER SCIENCE INSTITUTE GQ: Realizing a System to ...

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phenomenon of a **single** remote **source** engaging in heavy scanning of the telescope's address **source**. By matching the **source's** messages against **multiple** scripts, probed the honeypot AND the request is below a configurable **threshold** Finally, we present the **worms** GQ captured over the course of a month of ...

research.microsoft.com/en-us/um/people/wdcui/papers/gq-techreport.pdf - [Similar](#)
 by W Cui - [Related articles](#) - [All 10 versions](#)

Collaborative Internet **Worm** Containment

cooperation among **multiple** sites, enabled by trust integration and alert-correlation methodologies;6 ... It also remembers the set of **source** addresses $S(i,j)$ and **destination** ... Once $L(i,j)$ is greater than a local prevalence **threshold** T_l and the scalable wire-speed implementation in a **single worm** sensor. ...

doi.ieeecomputersociety.org/10.1109/MSP.2005.63 - [Similar](#)
 by M Cai - 2005 - [Cited by 32](#) - [Related articles](#) - [All 10 versions](#)

Computer Networks : SweetBait: Zero-hour **worm** detection and ...

Oct 13, 2006 ... As next-generation **computer worms** may spread within minutes to millions of SweetBait is comprised of **multiple** components with distinct roles, as well as the **source** and **destination** IP addresses involved in the data exchange. ... When a signature's activity exceeds a configurable **threshold**, ...

linkinghub.elsevier.com/retrieve/pii/S138912860600243X - [Similar](#)
 by G Portokalidis - 2007 - [Cited by 6](#) - [Related articles](#) - [All 5 versions](#)

Fast detection and visualization of network attacks on parallel ...

aDivision of **Computer** and Communication Engineering, Korea University, ... A flow is a **single** network connection and can consist of millions of packets. So there are **multiple source** and **destination** hosts, where a particular The **threshold** for determining DDoS or **worm** attacks is 50 (flows per second). ...

linkinghub.elsevier.com/retrieve/pii/S0167404808001363 - [Similar](#)
 by H Choi - 2008
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[PPT] 15-744: **Computer** Networking

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How to compute prevalence(w), sources(w) and **destinations**(w) efficiently? ... **multiple** bitmaps each mapped to progressively smaller and smaller portions of the hash space. bitmap recycled if ... counters > dispersion **threshold**? report key as suspicious **worm** ... **Single** sensor algorithmics + centralized aggregators ...

www.cs.cmu.edu/~srini/15-744/S08/lectures/23-worms.ppt - [Similar](#)

A Multi-Resolution Approach for **Worm** Detection and Containment

unions of the set of **destinations** contacted over **multiple** time bins. and add the

destination to the contact set of the **source**. ... a **single**-resolution **threshold**-based scheme, to detect **worms** with rate greater than r scans per second using nal of **Computer Security**, 10:105–136, 2002. ...
www.cs.cmu.edu/~ylxie/papers/dsn06.pdf - Similar
 by V Sekar - Cited by 10 - Related articles - All 13 versions
[More results from www.cs.cmu.edu »](http://www.cs.cmu.edu)

Very Fast Containment of Scanning Worms

May 17, 2004 ... **Computer worms** – malicious, self propagating programs ... Without containment, even a **single** breach can lead to a complete internal infection. This measures the number of new **destinations** a host can visit in a given period Then when a **source** IP crosses the **threshold** for scan detection, ...
www.icsi.berkeley.edu/~nweaver/containment/ - Cached - Similar

[PDF] Very Fast Containment of Scanning Worms

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for cooperation that enable **multiple** containment devices ... **Computer worms** — malicious, self propagating programs ... each cell (which might encompass just a **single** machine), a **source** IP crosses the **threshold** for scan detection, the ... **worm's** overlay network, informing the **destination worm** ...
www.icsi.berkeley.edu/~nweaver/containment/containment.pdf - Similar
 by N Weaver - Cited by 197 - Related articles - All 18 versions

[PPT] An active queue management scheme to contain high bandwidth flows

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Similar to how caches are employed in **computer** memory systems ... Drop rate keeps increasing if flow stays above **threshold**; Tends to punish nonresponsive flows, high-BW flows Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ...
www.ece.tamu.edu/~reddy/presentations/security_05.ppt - Similar

[PPT] Real-time Traffic monitoring and containment

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Similar to how caches are employed in **computer** memory systems. Exploit locality ... All parameters: **threshold**, probability and cache size are passed as parameters to the filter Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ...
www.ece.tamu.edu/~reddy/presentations/birmingham.ppt - Similar
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[PDF] Automated Worm Fingerprinting

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worms typically spread by a **single** mechanism and did between **multiple** sensors. By contrast, Earlybird has If the **source** and **destination** counts exceed the dispersion **threshold**, then the content string is reported. works. to appear in the Journal of **Computer Security**, 2004. ...
www-cse.ucsd.edu/~savage/papers/OSDI04.pdf - Similar
 by S Singh - Cited by 336 - Related articles - All 60 versions

[PDF] Collaborative Internet Worm Containment

File Format: PDF/Adobe Acrobat - [View as HTML](#)

May 6, 2005 ... Cooperation among **multiple** sites, enabled bytrust in- (b) The effects of the global prevalence **threshold** show that collaborative monitors can detect sig- **source** IP addresses and port numbers, **destination** IP ad- robust, scalable wire-speed implementation in a **single worm** sensor. ...
gridsec.usc.edu/files/TR/j3hwaSecurity&PMay11Galley.pdf - Similar
 by M Cai - 2005 - Cited by 32 - Related articles

[PDF] Fast Detection of Scanning Worm Infections

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This earlier work used a **single** sequential hypothesis test per host and did a temporary outage at a **destination** network at which **multiple** remote hosts that a local host initiates to a given **destination** port to a **threshold**, taxonomy of **computer worms**. In Proceedings of the 2003 ACM Workshop on ...

www.eecs.harvard.edu/~stuart/papers/scanworm.pdf - Similar
by SE Schechter - 2004 - Cited by 102 - Related articles

[PDF] [Analysis of the "SQL Slammer" worm and its effects on Indiana ...](#)

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choice of **source** and **destination** IP addresses. In the case of the **source** ... **multiple** hosts, each using a different seed, the effect on the internet Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the reuse **threshold**. ...

paintsquirrel.ucs.indiana.edu/pdf/SLAMMER.pdf - Similar
by G Travis - Cited by 2 - Related articles - All 6 versions

[PS] [Digging For Worms, Fishing For Answers](#)

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dress accessing 10 different ports on the same **destination** ... to scan **multiple** ports, or **multiple** hosts. for the number of connections to cross a particular **threshold**. [12], where a connection consists of a **single source** address ACM Conference on **Computer** and Communications Secu- ...

<https://users.cs.jmu.edu/buchhofp/publications/digging.ps> - Similar

[PDF] [The EarlyBird System for Real-time Detection of Unknown Worms](#)

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for a popular piece of content with a **single** counter, we believe distinct **source-destination** pairs for the signature under consid- eration. The parameter lection of the various **threshold** levels as well as the length of the warning for internet **worms**," Department of **Computer** Science, Univ. of ...

www.cs.unc.edu/~jeffay/courses/nidsS05/signatures/savage-earlybird03.pdf - Similar
by S Singh - 2003 - Cited by 99 - Related articles

[PDF] [Worm Detection](#)

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destinations, and distinct **source-destination** ... with frequency greater than a **threshold**,. occurrenceRate. 8. Alerts. As each packet generates **multiple** signatures, ... **Single** packet application identifier strings, eg. "SSH- Department of **Computer** Science, Technical Report CS2003-. 0761, August 2003. ...

www.cs.unc.edu/~jeffay/courses/nidsS05/slides/13-Worm-Detection.pdf - Similar
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[PDF] [Analysis of the "SQL Slammer" worm and its effects on Indiana ...](#)

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inefficient, however a Slammer infected **computer** would try as many as choice of **source** and **destination** IP addresses. In the case of the **source** Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the reuse **threshold**. ...

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[doc] [Survey on Polymorphic Worms](#)

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Department of **Computer** Science. Lamar University Unlike Auotgraph that is based on matching a **single** substring, **multiple** substrings are used If the count of **source destination** IP pair exceeds some **threshold** value and number of ...

puspamahat.com/Documents/Survey%20on%20Polymorphic%20Worms.doc - Similar

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Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) -- **worm** content is flagged only if counts along all hashes exceed a **threshold** ...

Single UDP packet exploits flaw in the passive ...

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Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) -- **worm** content is flagged only if counts along all hashes exceed a **threshold**. •

Include the **destination** port in the hash of the packet content **Single** UDP packet exploits flaw in the passive ...

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[PDF] **Detecting Internet Worms at Early Stage**

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Department of **Computer** & Information Science & Engineering RESET packets to an external host exceeds a **threshold** value within a period of time, it reports th ... connections to random **destination** addresses from a **single** forged **source** address. An attack session may consist of **multiple** inbound packets. ...

www.cise.ufl.edu/~sgchen/papers/USAC2005.pdf - [Similar](#)

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[PDF] **Slowing Down Internet Worms**

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always increase as **computer** systems become more and more ... edge routers, which are under a **single** administrative con- ... 0, the probability of **multiple** scan messages hitting the a pre-configured **threshold**, the agent randomly drops a min- any **source** address in S to any **destination** port in P during ...

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[PDF] **SWORD: Self-propagating Worm Observation and Rapid Detection**

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source and **destination** addresses and ports. SWORD coalesces the header information ... **Multiple** attacks on a specific vulnerability, either from a **single** host or from detect **worm** connections to exceed the **threshold** within a window. Symposium on Performance Evaluation of **Computer** and Telecommunication ...

ix.cs.uoregon.edu/~lijun/pubs/papers/li06sword.pdf - [Similar](#)

by J Li - 2006 - Cited by 1 - [Related articles](#)

[PDF] **On the Adaptive Real-Time Detection of Fast-Propagating Network Worms**

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First, finding a **single threshold** rate that accommo- ... browser generating **multiple** concurrent connections to fetch embedded objects vs. an SSH client connecting to a server). Connection information includes a **source** address, s, a **destination** address, d, R. A Taxonomy of **Computer Worms**. In Proceedings ...

dspace.mit.edu/bitstream/handle/1721.1/34875/MIT-CSAIL-TR-2006-074.pdf?sequence=1 -

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by J Jung - 2008 - Cited by 6 - [Related articles](#)

[PDF] **Surveillance Detection in High Bandwidth Environments**

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spread of failed connections over **multiple destinations** ... collected during any large **worm** attack such as Code every **single source** which produced connections to N or more unique **destinations** over a ... Since even a low detection **threshold** can drastically

Portscans", Seventh ACM Conference on **Computer** ...

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by S Robertson - 2003 - Cited by 44 - Related articles

[PDF] Anomalous Payload-based Worm Detection and Signature Generation

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distinct **source** and **destination** IPs for each suspicious content, in order to keep the score is higher than some **threshold**, we treat this as possible **worm** propagation and Most current attack detection systems are constrained to a **single** ingress ... commonly matched as anomalous data among **multiple** sites. ...

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[PDF] Operational Programme "Competitiveness" D3.1 "System Implementation"

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A fundamental condition for the system to detect a **worm** is that the ... tiple **destinations**. The **destinations threshold** used for triggering an alert is ... A **single destination** can be stored within the entry, but for more than one desti- ... CACHE **MULTIPLE** DST Substring has **multiple destinations** stored in extra ta- ...

[www.ics.forth.gr/dcs/Activities/papers/earimp.pdf](#) - Similar

[PDF] Approach to Worm Detection, Early Warning Based on Local Victim ...

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DSC (**Destination-Source** Correlation) based on **worm** behavior. The proposed algorithm can fast early warning, ... 2) SIMO (**single**-input **multiple**-output) behavior: if a **worm** ... 2008 International Conference on **Computer Science** and Software Engineering ... 9) Threshold_Ni: the **threshold** value of scan times of the ...

[ftp://ftp.computer.org/press/outgoing/proceedings/csse08/data/3336e880.pdf](#) - Similar

by T Liu

[PDF] Effective Worm Detection for Various Scan Techniques

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algorithm for **worm** detection using **multiple** parameters as indicators in Section VII. ... As an end host, a **single computer** can apply various strategies to detect and respond to **worm** attacks. mistypes a **destination** address, the **source** address might ... of new victims is greater than the adaptive **threshold** T ...

[rio.ecs.umass.edu/mnilpub/papers/jxia-JCS-wormdetection.pdf](#) - Similar

by J Xia - 2006 - Cited by 3 - Related articles

[PDF] The Limits of Global Scanning Worm Detectors in the Presence of ...

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computer security, **computer worms**, scanning **worms**, **worm** itored a **single** unused IP address over the course of 25 days, time to random **destinations**, then at time t the overall **worm** adjust its **worm** detection **threshold** even higher to prevent We could not find a good **source** of data from which to ...

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distinct **source** and **destination** IPs for each suspicious content, score is higher than some **threshold**, we treat this as possible **worm** propagation and Most current attack detection systems are constrained to a **single** ingress signatures that may be used for filtering **worm** attacks at **multiple** sites. ...

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[PDF] DNS-based Detection of Scanning Worms in an Enterprise Network

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Oct 20, 2004 ... pose an algorithm based on the **Threshold** Random Walk ... lar cell or span **multiple** cells depending on the scanning and **destination** IP address and **source** and

destination port number. able to detect scanning **worm** propagaton in a **single** scan-
 A taxonomy of **computer worms**. In The First ...
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Detecting Public Network Attacks Using Signatures and Fast Content ...
 Dec 11, 2008 ... Network **worms** or viruses are a growing threat to the security of public and
 private ... said first monitoring comprises monitoring **multiple destinations**; An IP
 header identifies both **source** and **destination** for the payload. Thus when comparing
 against the **threshold** for **source** addresses, ...
www.freepatentsonline.com/y2008/0307524.html - Similar
 by S Singh - 2008 - Cited by 1 - Related articles - All 5 versions

Containment of Unknown and Polymorphic Fast Spreading Worms ...
 Sep 11, 2008 ... A **computer**-readable media tangibly embodying a program of
 instructions one may also need to have a maximum **threshold**, MAX TIMEOUT, for the
 waiting time. ... To achieve this, one can either change the **destination** IP address of
 the To verify this, the **worm source** code was also instructed ...
www.freepatentsonline.com/y2008/0222729.html - Similar
[More results from www.freepatentsonline.com »](#)

Symantec Security Response - Glossary - Symantec Corp.
 This program drops the virus or **worm** onto the victim's **computer**. By using **multiple**
 methods and techniques, blended threats can rapidly spread ... Any files in the **source**
 folder are copied to the **destination** folder. Administrators define **threshold** rules to
 determine how notifications are to be delivered. ...
www.symantec.com/norton/security_response/glossary.jsp - Cached - Similar

[PDF] Data Reduction for the Scalable Automated Analysis of Distributed ...
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 volving **multiple destination** ports (multi-vector) and con- sisting of less than 10
 contacted ... connection filtering, N connections from a **single source** are recorded, and all
 subsequent **threshold**. The coverage **threshold** defines the number of Internet
worm activity. FIRST Conference on **Computer Security** ...
www.eecs.umich.edu/~mibailey/publications/IMC-2005-Final.pdf - Similar
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[PDF] WORM vs. WORM: Preliminary Study of an Active Counter-Attack Mechanism
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 Self-propagating **computer worms** have been terrorizing the tem until a certain
threshold of similar messages are seen on the network before signaling a **worm** presence.
 A ver- ... **worm** to others. The **source** and **destination** port number of **multiple** vectors
 in a **single** payload, in order to bridge net- ...
www.icir.org/vern/worm04/castaneda.pdf - Similar
 by F Castaneda - 2004 - Cited by 45 - Related articles

[PDF] Evaluation of collaborative worm containment on the DETER testbed
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 The data **source** for the background traf- ... components: **worm** detection based on unique
destination ... emulation experiments are as follows: sending rate **threshold** network
 firewalls facilitates the detection of **single** random scanners. ceedings of the 10th ACM
 conference on **Computer** and com- ...
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[PDF] Boundary detection and containment of local worm infections
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 May 15, 2007 ... When a **threshold** of similar incomplected connec- based on those
 marks using a **single** rule. This keeps srcip, dstip: **Source** and **destination** IP addresses
 **Multiple** matching: When duplicate unreachable ume 4219 of Lecture Notes in

Computer Science, pages 165–184. Springer, 2006. ...

www.userix.org/event/sruti07/tech/full_papers/zamboni/zamboni.pdf - [Similar](#)

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Handling of DDoS attacks from NAT or proxy devices - US 20090144806

Jun 4, 2009 ... After taking control of a **computer**, a **worm** often uses the ... To a system on the Internet, the NAT device itself appears to be the **source/destination** for this traffic. ... This **threshold** may be determined, for example, by the number of A proxy server may pipeline HTTP messages from **multiple** ...

www.patents.com/Handling-DDoS-attacks-NAT-or-proxy-devices/US20090144806/en-US/ - [Similar](#)

[PDF] PWC: A Proactive Worm Containment Solution for Enterprise Networks

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Computer worms (i.e., malicious self-propagating code) are ... slower **worms**. In this paper, we will discuss **single** resolution handle **multiple** simultaneous smoking signs raised by different Smoking sign **threshold** (unique **destinations/sec**) of bogus smoking signs spoofing internal **source** address. ...

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Automated detection and containment of worms and viruses into ...

Computer worms rely on active methods of infecting host autonomy, dynamic coverage, anomaly detection, **multiple** ... coordination takes place, which means there is no **single** ... **threshold**. The most significant parameters used in our ... **destination-source** infection patterns that can be useful to ...

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by allowing, in certain circumstances, the coupling of **multiple** supercomputers to perform (**Source**). GridFTP Server. (**Destination**). Cactus Application ... **Worm** thorns. Resource. Selector. Migrator. **Computer**. Storage ... The length of a time quantum, degradation **threshold**, and number of consecutive violations ...

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[PDF] Hit-List Worm Detection and Bot Identification in Large Networks ...

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In a protocol graph, a vertex represents a **single** IP ad- SMTP: SMTP consists of TCP traffic where the **source** or **destination** port false alarm rate for any given detection **threshold** (Section 4.2). In this section, a **worm** would be to consider graphs that involve **multiple** protocols at once, ...

www.cert.org/netasa/publications/raid2007-collins-hit-worm-detect-bot-indent-sep07.pdf -

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[PPT] Data Mining in Cyber Threat Analysis

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For the same **source (destination)** IP address, number of unique **destination** ... Detected a distributed windows networking scan from **multiple source** locations ... Detected several instances of slapper **worm** that were not identified by SNORT ... the scanning **threshold**) which results in the large memory requirements ...

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[PDF] Predicting the Presence of Internet Worms using Novelty Detection

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destination. This information is exchanged between the networks that form the A

threshold value is specified from the novelty output of An extension of this work would be to correlate the novelty values from **multiple** routers, to be ... The Evolution of Viruses and **Worms**. Statistical Methods in **Computer** ...
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[PDF] [A Reputation-based System for the Quarantine of Random Scanning Worms](#)
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 connections increases above a pre-set **threshold**, the cell is considered towards the reputation of an attacker, but certainly more than a **single** report by the **worm** and the last time an attack reached its intended **destination**. R. A Taxonomy of **Computer Worms**. Proceedings of the 2003 ACM Workshop on ...
www.cs.rpi.edu/research/pdf/05-01.pdf - [Similar](#)
 by SE Coull - [Related articles](#)

[PDF] [SweetBait: Zero-Hour Worm Detection and Containment Using Honeypots](#)
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 SweetBait is comprised of **multiple** components with distinct roles, which can be a configurable **threshold**, the sensors will be instructed to filter the offending ... **source** and **destination** IPs information. As a **single** GCC obviously is susceptible less whether they are the result of a **computer worm**, ...
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[PDF] [Characterization of Network-Wide Anomalies in Traffic Flows](#)
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 May 19, 2004 ... anomalies (values above the **threshold** represent anomaly detection). The periodicity in the original a **single destination** IP, with no dom- inant **source** IP. Can involve **multiple** ... tion of **destination** IP and port. Can involve **multiple** OD flows and typi- A Taxonomy of **Computer Worms**. In ACM ...
www.cs.bu.edu/techreports/pdf/2004-020-traffic-flow-anomalies.pdf - [Similar](#)
 by A Lakhina - [Cited by 104](#) - [Related articles](#) - [All 19 versions](#)

[PPT] [Network Worms: Attacks and Defenses](#)
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 Love Bug **worm**: \$8.75 billion. Statistics: **Computer** Economics Inc., Carlsbad, California Used **multiple** vulnerabilities, propagate to "nearby" sys Hash : based on **Source** (or **Destination**); Sample : keep only a sample of the ... bitmaps to tell if number of distinct addresses per hash crosses **threshold** ...
crypto.stanford.edu/cs155old/cs155-spring06/16-worms.ppt - [Similar](#)

[PDF] [Advanced Polymorphic Worms: Evading IDS by Blending in with Normal ...](#)
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 Mar 27, 2004 ... Normal traffic can provide **worms** with a very good **source** of infor that selects an attack vector, generates a set of **destinations**, In our example, we presume the **worm** uses a **single** attack vector, an ex There has been a number of documented studies that investigated **computer worms** and ...
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Morris Worm

The term **computer** virus was first used in a formal way by Fred Cohen at USC. Additionally, a **threshold** could be included to check for repeated password ... version of the **worm**, a VAX version, and the **source** code for the vector program. The way hosts were added to this list implies that a **single worm** might ...
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[PDF] [Mining Anomalies Using Traffic Feature Distributions](#)
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 anomalies that span **multiple** traffic features. Finally, we tackle the anomaly classification

problem ... found that IP address distributions change during **worm** outbreaks. ... Traffic from **single source** to many **destinations**, e.g., that setting the volume **threshold** low enough to detect the majority. Network ...

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[PS] The EarlyBird System for Real-time Detection of Unknown Worms

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or **source-destination** pairs corresponding to signatures that ac-. count for high traffic volumes identified ... **multiple** links and the exploit could be fragmented differently ... (**threshold**) number of times, then we instantiate counters to warning for internet **worms**," Department of **Computer Science**, Univ. of ...

www.cse.ucsd.edu/Dienst/Repository/2.0/Body/ncstrl.ucsd__cse/CS2003-0761/postscript - [Similar](#)
by S Singh - 2003 - [Cited by 99](#) - [Related articles](#)

Autograph: Toward Automated, Distributed Worm Signature Detection

In Section 3, we describe the detailed workings of a **single** Autograph monitor: its Autograph stores the **source** and **destination** addresses of each inbound a new **worm** after the **worm's** release, and demonstrate that operating **multiple**, Note that for a port scanner detection **threshold** $s = 1$, the shortest ...

www.lib.unb.ca/engineering/usenix/04security/tech/full_papers/kim/kim_html/autograph.html - [Cached](#) - [Similar](#)
by HA Kim - [Cited by 367](#) - [Related articles](#) - [All 50 versions](#)

(WO/2008/002801) DETECTION OF FREQUENT AND DISPERSED INVARIANTS

A **worm** can be described as a destructive program that automatically The **Source** and **Destination** IP Hash values are formed by scrambling the bits and ... or equal to a programmable **threshold** the **source/destination** scaling factors are be practiced with other **computer** system configurations, including **single-** ...

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[PDF] Automated Worm Fingerprinting

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May 8, 2009 ... To maintain a count of unique **source** and **destination** ... easy to envision **worms** for which the invariant content is a string smaller than a **single** ... uses **multiple** bitmaps each mapped to progressively smaller and smaller portions of ... By using a lower dispersion **threshold** one can respond to a **worm** ...

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[PDF] WormTerminator: An Effective Containment of Unknown and ...

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destination or drop the **worm** traffic and raise an alarm to the user. have a maximum **threshold**, MAX TIMEOUT, for the waiting put **multiple**, and possibly multithreaded, processor cores onto a **single** processor chip so as to fully utilize the avail- also instruct the **worm source** code directly and get very ...

cs.gmu.edu/~xwango/Publications/ANCS2006-WormTerminator.pdf - [Similar](#)
by S Chen - 2006 - [Cited by 2](#) - [Related articles](#)

[PS] Virus Throttling for Instant Messaging

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Computer worms spread over networks, the particular ... called the epidemic **threshold**. In a fully connected net- ... It is assumed that the infection takes place with a **single**. message. lay queue, their **destinations** added to the working set ... a message is sent to **multiple** recipients simultaneously. ...

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[PDF] On the Detection and Origin Identification of Mobile Worms

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consisting of the start, duration, **source**, and **destination** responding to the same transaction into a **single** semantic the long-term average passes a **threshold**, the detector raises therefore **multiple** reverse paths lead to that node. (b) Un- like **worms**, non-malicious node contacts do not tend to form ...

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Mar 19, 2002 ... distribution of **source** IP addresses of the non-**worm** intrusions ...

Distribution: Sources and **destinations** of intrusions from Horizontal Scan - is a scan from a **single source** of sev- ... **threshold** (1 hour) and the minimum **threshold** for the In Journal of **Computer Security**, 2002. ...

pages.cs.wisc.edu/~pb/dshield_paper.pdf - [Similar](#)

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[\[PDF\] Worm Detection at Network Endpoints Using Information-Theoretic ...](#)

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anomaly detection scheme that detects **computer worms** by **Source** and **destination** ports' Kullback-Leibler divergences at infected endpoints. ... fected with a **single** infection of each **worm** are outlined in Fig. 1. From Fig. in Section IV-A] is the **threshold** number of sessions below which **worm** detection is ...

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Department of **Computer** and Information Science. The Ohio State University, Columbus, OH 43210-1277 from **multiple destinations** with a **single** message. E-cube. Turn-model **source destination** When the **threshold** is reached, more than one i-reserve **worms** are used to cover **destinations** in the columns. ...

ftp://ftp.cse.ohio-state.edu/pub/communication/papers/icpp96-dsm-multidest.pdf - [Similar](#)

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[Entropy Based Evaluation of Communication Predictability in ...](#)

The author is with the Department of Electrical and **Computer** ... forms of networking such as packet switching and **worm**- accuracy **threshold**, below which prediction should not be attempted. ... of the **single-source destinations**. The events are se- analysis of the benefit of tracking **multiple** successors may ...

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Jan 22, 2004 ... per **source** to count all the ports and **destinations** each **source** talks to. the same, except that the **threshold** for detection has to be tuned the presence of DoS attacks which are **single** or **multiple source** taxonomy of **computer worms**," in Proceedings of the ACM Workshop of ...

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definition of a failed connection and how the **threshold** tination port 80) from a **computer** with a **source** IP S. ... **Source** port or 0 for **multiple source** ports dstport. **Destination** port ... **worm**: the host is engaged in its usual P2P activity on more than 1 **destination** IP on a **single destination** port. 'TP' ...

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worms with **multiple** disjoint string tokens that are shorter than the **single** substrings used in to that of generating **worm** signatures at a **single** monitor in. Earlybird [32]. t is a **threshold** for both **source** and **destination** addresses. Taxonomy of **Computer Worms**," Proc. 2003 ACM Workshop Rapid ...

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[Paper] [Mining Frequency Content of Network Traffic for Intrusion ...](#)

The last type may be used in detecting traffic patterns when a **worm** or virus ... each connection Compare with a **threshold** value Report attacks Local Frequency ... A pair of **source** and **destination** IP addresses A **single** protocol or a set of ... is not independent and is possibly originated from one **source computer**, ...

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[Tools](#)

Best for: **worm** experiment generation and visualization ... used to generate background traffic in a network as the **multiple** clients keep contacting clusters whose traffic is greater than a **threshold** (either in terms of packet number or ... **destination** IP, **source** port, **destination** port or protocol) and also in ...

[www.isi.edu/deter/tools.html](#) - [Cached](#) - [Similar](#)

[CPM Dictionary: T | Contingency Planning & Management](#)

Task Force: Combination of **single** resources assembled for a particular tactical need, **Threshold**: Number of events needed to satisfy certain criteria; ... includes identities and locations of the **source(s)** and **destination(s)**, ... that stimulates the activity of the payload, such as a virus or **worm**; ...

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[PDF] [Autograph: Toward Automated, Distributed Worm Signature Detection](#)

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in lost productivity owing to interruptions in **computer** and Autograph stores the **source** and **destination** addresses of ... port, the suspicious flow pool contains more than a **threshold** number of flows θ 5.1 **Single** vs. **Multiple** Monitors. Let us now measure the time required for an Autograph mon- ...

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IJCSNS International Journal of **Computer** Science and Network Security, ... within a local network there will soon be **multiple** ones. to use ICMP "**Destination** Unreachable" messages collected ... **threshold** to judge whether a **worm** is propagating or not. proposed P2P overlay network, we developed a **single** ...

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Point to Multipoint Traffic from **single source** to many des- Counts over a **threshold** provoke GrIDS to report a suspected **worm**. to check that the same content propagate not just between **multiple source-destination** pairs, but [17] Automatic Extraction of **Computer** Virus Signatures :Jeffrey O. Kephart ...

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The attacker is also able to launch attacks against **multiple** targets using the "mdos" ...
 Using TFN, a **single** attacker can launch an attack from dozens of computers on which
 One of the critiques of this subsection is the \$5000 damage **threshold**. He
 programmed the **worm** to multiply only once on a **computer**, ...
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Source and **destination** IP address. – Next hop router's IP address **Computer worms**
 cost European ISPs 123 Million € (The Register, May 2004) ...
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outgoing connections to unique **destination** addresses and ports exceed a **threshold** and
 share detection information with each other to improve false detection rates. a **single**
 slow **worm** detection window (Fig. 6). At the end of a **worm** modified blaster **worm**
source code [11]. To emulate **multiple** malicious ...
www.scs.carleton.ca/~kranakis/Papers/cisda09.pdf - [Similar](#)

LITMUS: Live Intrusion Tracking via Multiple Unsupervised STANNOS

Although this time tested approach is the backbone of current **computer** security systems,
 ... Figure 3 illustrates a **single** instantiation of a Windows-based LITMUS program, the
 middle, **source** IPs, and the rightmost, **destination** IPs. ... In Figure 6, for instance, LITMUS
 reveals the Nimda **worm** attempting to gain ...
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19th Annual Computer Security Applications Conference (ACSAC ...

Typical IDSs with **multiple** models sum the output of the models and compare to ... They
 claim that the resulting system was always better than a **threshold**-based system. ... The
 idea is to throttle the load based on new email **destinations**, ... that nothing much has
 changed in the past 15 years since the Morris **Worm**, ...
www.ieee-security.org/Cipher/ConfReports/2004/CR2004-ACSAC.html - [Cached](#) - [Similar](#)

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single product solution, but rather a holistic approach is required to look ... As early as
 November 3, 1988, Robert Morris Jr. released a **worm** which later ... In this event, often the
source is a legitimate IP. By spawning **multiple** ... **threshold** to an acceptable number of
 packets to be processed by the **computer**. ...
www.cybersecurity.org.my/data/content_files/13/72.pdf?diff=1176418012 - [Similar](#)

[PDF] A Fast Worm Scan Detection Tool for VPN Congestion AvoidanceFile Format: PDF/Adobe Acrobat - [View as HTML](#)

is modified with different **threshold** values and the impor- tance of failed connection-
 attempts is ... of a **worm** an infected **computer** needs to scan many others ... entropy of the
source and **destination** IP addresses and port **Multiple** targets are typical for a **worm**,
 while a **single** target could be a denial of ser- ...
www.tik.ee.ethz.ch/~ddosvax/publications/papers/dimva06scan.pdf - [Similar](#)
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[PPT] ECE 683 Computer Network Design & AnalysisFile Format: Microsoft Powerpoint - [View as HTML](#)

TCP connection **threshold**; Use **worm** signature for outbound traffic ... **Single** logical point
 of failure, potential for congestion. No security ... Attempt **multiple**, redundant routes from
 the **source** to the **destination**. ...
web.njit.edu/~yczhang/ece683/files/note12.ppt - [Similar](#)

[PDF] Qi ZhaoFile Format: PDF/Adobe Acrobat - [View as HTML](#)

rence across all the nodes in a network are above a certain **threshold**. ...
source/destination IP addresses ranked by traffic volume to incipient **worm** ... using
 traditional **single** node mechanisms since the signal is usually too ... and **multiple** times
 better than the sampling scheme (e.g., Cisco sampled NetFlow). ...
www.cc.gatech.edu/~qzhao/CV_qzhao.pdf - [Similar](#)

MIT CSAIL Research Abstracts

On the Adaptive Real-Time Detection of Fast-Propagating Network **Worms** ... Finding a
single threshold rate that accommodates all (or almost all) benign ... a Web browser
 generating **multiple** concurrent connections to fetch embedded ... on the rate at which the
 infected hosts initiate connections to new **destinations**. ...
publications.csail.mit.edu/abstracts/abstracts06/jyjung/jyjung.html - [Cached](#) - [Similar](#)

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entry in the prevalence table, a list of unique **source-destination** IP address duced by
 subgraphs from **multiple** executables, the analyzer compared the list **worm**, which is
 only 376 bytes long and fits into a **single** UDP packet, has a CFG In 18th Annual
Computer Security Applications Conference (AC- ...
www.auto.tuwien.ac.at/~chris/research/doc/raid05_polyworm.pdf - [Similar](#)
 by C Kruegel - [Cited by 116](#) - [Related articles](#) - [All 26 versions](#)

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not be easily diagnosed from a **single** point in the network. ample may be to include
 hashed **source** and **destination** IP ... security data from **multiple** sources is likely to be of
 great knowledge of **computer worms** and self-propagating mal- tal number of such
 records exceeds a given **threshold**. (The ...
www.cs.utexas.edu/~shmat/shmat_nspw06.pdf - [Similar](#)
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observed when a **worm** or virus is spreading itself from an infected **computer** to other
 computers. used in detecting attacks originated from a **single source** IP ... sent to the
destination PC node through the hub (located at the ... below the **threshold** value 3.0, both
 connecting IPs are marked as suspicious. ...
[www.iissci.org/Journal/CV\\$/sci/pdfs/P602668.pdf](http://www.iissci.org/Journal/CV$/sci/pdfs/P602668.pdf) - [Similar](#)
 by M Zhou - 2003 - [Related articles](#)

SANS Institute - Intrusion Detection FAQ: Can you explain traffic ...

the most trusted **source** for **computer** security training, certification and research and a
 vertical scan as a **single** IP being scanned for **multiple** ports. ... would reduce the space
 down to the **source** and **destination** IP of the events. ... The anomaly **threshold** could be
 lowered when filtering was used since the ...
www.sans.org/resources/idfaq/anomaly_detection.php - [Cached](#) - [Similar](#)

DoS and DDoS Attack Guide

Mar 3, 2008 ... All requests are coming in from a "**single**" **source** – you! **Computer**
 Crime Research Center's Network Security: DoS vs DDoS Attacks ... Can the **destination**
 IP Address that is being attacked be stopped? **Worm** activity, often the prelude to both
 spam and denial of service (DoS) attacks, ...
www.dos-attacks.com/ - [Cached](#) - [Similar](#)

Effective worm detection for various scan techniques

multiple parameters as indicators to detect **worm** events. ... As an end host, a **single**
computer can apply various strategies to detect and re- spond to **worm** attacks. We

combine address segments using a distance **threshold**. a legitimate user mistypes a **destination** address, the **source** address might be marked ...

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observed when a **worm** or virus is spreading itself from an in- fected **computer** to other computers. used in detecting attacks originated from a **single source** IP tar- ... dependent and is possibly generated from one **source computer**. **threshold** value 3.0, both connecting IPs are marked as suspi- ...

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For example, when aggregating **multiple** access-layer switches into a ... In this context, faulty software includes **computer worms** and viruses, ... Packet loss—The measure of lost packets between any given **source** and **destination**. ... packets increases beyond a specific **threshold**, a jitter buffer underrun occurs. ...

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